

Appl No.: 10/523,867

Atty. Dkt.: UCF-456US **RECEIVED**
CENTRAL FAX CENTER**REMARKS/ARGUMENTS****SEP 01 2006**

Favorable consideration of this application is respectfully requested. Applicant has amended claims 1 and 26, canceled claims 7 and 9 and has added new claim 34. No new matter has been added. Applicant gratefully appreciates Examiner's statement that claims 10-25 are allowed. Applicant further thanks Examiner Corbett and Supervisor Glick for the telephone interviews on August 22 and 23 to discuss the differences between claims 1 and 26 of the subject application and the Zeng reference relied upon for the rejection.

Claims 1-7 and 26-33 were rejected under 35 U.S.C. 102(b) as being anticipated by Zeng et al., U.S. Patent No. 5,170,439. As discussed during the telephone interview, Zeng describes a filter for the curved portion of the orbit that is spatially invariant but spatially varying for the line portion of the orbit. Claims 1 and 26 have been amended to clarify that the convolution based filtered back program was spatially invariant when applied to both the single curve and the line transversal. For these reasons, Applicant believes that claims 1 and 26 are allowable over Zeng and requests removal of the rejection.

The limitations of dependent claim 7 have been added to independent claim 1, thus claim 7 has been canceled.

Claims 2 and 29 were rejected under 35 U.S.C. 103(a) as being unpatentable over Zeng as applied to claims 1 and 26 above, and further in view of Bradcovich (4,426,578). Claims 1 and 26 have been amended to overcome the section 102 rejection over Zeng, thus Applicant believes that claims 2 and 29 are allowable under section 103 over Bradcovich and requests removal of the rejection.

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Claim 6 was rejected under 35 U.S.C. 103(a) as being unpatentable over Zeng as applied to claim 1 above, and further in view of Morgan (5,834,780). Claim 1 has been amended to overcome the section 102 rejection over Zeng, thus application believes that claim 6 is allowable under section 103 for the reasons provided in regard to claim 1. Thus, Applicant requests removal of the rejection.

Claims 27 and 28 were rejected under 35 U.S.C. 103(a) as being unpatentable over Zeng as applied to claim 26 above, and further in view of Zeng et al. publication (Phys. Med. Biol., 39, 1994, pp. 493-507) and IEEE Transactions on Nuclear Science, Vol. 44, No. 1, Feb. 1997, pp. 98-106. Claim 26 has been amended to overcome the section 102 rejection over Zeng, thus application believes that claims 27 and 28 are allowable under section 103 and requests removal of the rejection.

Claim 33 was rejected under 35 U.S.C. 103(a) as being unpatentable over Zeng as applied to claim 26 above, and further in view of Fujise et al. (5,588,036). Claim 26 has been amended to overcome the section 102 rejection over Zeng, thus application believes that claim 33 is allowable under section 103 and requests removal of the rejection.

Examiner also rejected claim 1, 4-5, 7-8, 26 and 31-33 on the ground of nonstatutory obviousness-type double patenting over claims 1-2 and 4 of prior U.S. Patent No. 6,771,733 in view of Zeng. However, claims 1 and 26 have been amended to overcome the Zeng reference. Because neither U.S. Patent 6,771,733 nor Zeng disclose using shift-invariant filtered back projection to both the curve and the line, Applicant requests that the obviousness-type double patenting rejection be removed.


New claim 34 has been added to further claim the subject matter Applicant regards as the invention. No new matter has been added.

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In view of the foregoing considerations, it is respectfully urged that claims 1-6, 8, and 10-34 be allowed. Such action is respectfully requested. If the Examiner believes that an interview would be helpful, the Examiner is requested to contact the attorney at the below listed number.

Respectfully Submitted;


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9/1/06